



Welcome to Intelligent Energy

Powering the hydrogen future®

Hydrogen fuel cell manufacturer

Products from 800W to 300kW

Automotive, aerospace, telecoms, marine, rail, materials handling, stationary and portable power



23 years' experience
Over 150 employees
Over 600 patents
12 modular products



Based in the UK
US, Japan, South Korea and
China.



Credited with ISO 9001:2015, ISO
14001:2015, ISO 45001:2018



What is a fuel cell?

Fuel cells **generate electricity** through an environmentally friendly **electrochemical reaction**.

A **zero-emissions** solution.

Produces continuous power when hydrogen and air are supplied.

No combustion is involved.



Fuel cell stack

+



Hydrogen

+



Air

=



Electricity

+



Pure water

Zero-emission power from 800W to 1MW



IE-SOAR

800W – 24kW

Lightweight fuel cell modules for drones and VTOL applications



IE-POWER

1kW – 32kW

Clean power for construction, standby power and telecoms



IE-LIFT

1kW – 60kW

Battery box replacement for material handling equipment



IE-DRIVE

100kW – 300kW

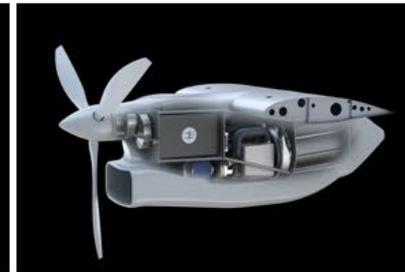
Fuel cells for buses, trucks, cars, rail and marine



IE-FLIGHT

100kW – multi-MW

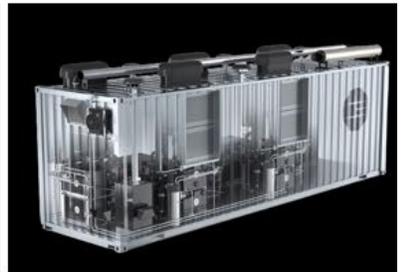
Zero-emission flight for eVTOL, small aircraft and large aircraft



IE-GRID

100kW - 3MW

Fuel cell distributed power solutions



IE-SOAR™

800W – 24kW



Surveying



Mapping



Pipeline Inspection



IE-POWER™

1kW – 32kW



Construction



Stationary Power



Telecoms



IE-LIFT™

1kW – 60kW



Warehouse Trucks



AGVs



Counter balance



IE-DRIVE™

100kW – 300kW



Buses and Trucks



Cars



Stationary Power



IE-FLIGHT™

100kW – multi-MW



eVTOL



Small Aircraft



Large Aircraft



IE-GRID™

100kW – 3MW



Stationary Power



Mobile Power



Marine



Our history



2005
First fuel cell motorbike



2008
First manned fuel cell aircraft with Boeing



2010
First PEM fuel cell taxi



2011
First fully road approved fuel cell scooter



2012
Fuel cell taxis at London Olympics



2014
Upp™ launched – a charging device powered by fuel cells



2015
High power system



2016
Fuel cell power for UAVs



2018
Fuel cell scooter Met Police fleet trial



2018
4kW module launched



2019
UAV world flight time record achieved with customer



2019
Fuel cell welfare cabin for the construction industry



2019
2.4kW UAV module launched



2019
Automotive partnership with Changan



2021
Aerospace partnership with GKN



2021
1kW compact module launched



2022
172kW achieved from single EC stack



2022
BMW introduces fuel cells to AGV fleet



2022
Shell use fuel cells for pipeline inspection



2023
First standard 100kW HD fuel cell dispatched



2023
Fuel cell for passenger vehicles launched



2024
Fuel cell powered SUV with Changan



2024
New testing site announced for high power products



2025
Launch of HEIGHTS: aero project



2025
IE-POWER 4 achieves certification in North America



2025
UK's first long-range hydrogen drone trial with BT



2025
First in-house grid solution deployed

Our partners and customers



Enapter



长安汽车
CHANGAN



AIRBUS



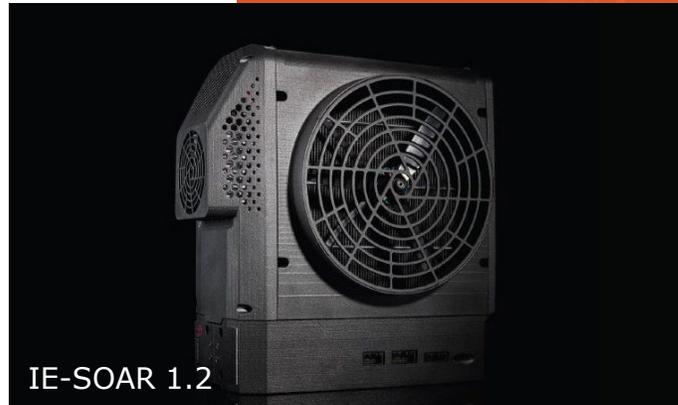
TEIJIN



IE-SOAR:

800W – 24kW for drone and VTOL applications

- ✓ 3 to 5 times the flight time over batteries
- ✓ 2-3 minute refuelling
- ✓ Combine systems in parallel for 800W to 24kW systems
- ✓ Over 1000 hours life
- ✓ Rotary wing, fixed wing and VTOL applications
- ✓ Unlock BVLOS operations



Case studies

Replace your battery and unlock long endurance flight



Data capture and monitoring



Pipeline inspection with Shell



Broadcasting the Sail Grand Prix



Long range reconnaissance

IE-POWER:

1kW – 32kW for standby power, telecoms and construction

- ✓ Small, light, power dense hydrogen fuel cells
- ✓ Modular, scalable and easy to integrate
- ✓ Unique patented airflow management
- ✓ Quiet operation
- ✓ Wide environmental envelope
- ✓ Robust against high shock and vibration incidence



IE-POWER 1



IE-POWER 4

Case studies

Zero emission hydrogen fuel cell solutions to meet your net zero targets



Fuel cell electrolyser demonstrator site for EGAT in Thailand



Stationary power for welfare cabins on HS2 sites



Back up power systems for telecoms sites with Netis



Power in off-grid locations with Powidian

IE-LIFT:

1kW – 60kW for material handling equipment

- ✓ Complete battery replacement – 24V / 36V / 48V
- ✓ Simple retrofit using existing FLT connections
- ✓ Rapid refuelling improves fleet availability
- ✓ Easily scalable with site / fleet expansion
- ✓ Improved TCO for intensive operations



Case studies

Rapid refuelling, improved availability, lower TCO



**Fuel cell powered
Automated Guided
Vehicles at BMW Plant**



**World's first hydrogen-
electric powered access
platforms with Niftylift**

IE-DRIVE:

100kW – 300kW for automotive applications

- ✓ High power density
- ✓ Compact and easy to integrate
- ✓ Patented cooling technology
- ✓ Scalable and modular
- ✓ Long life span
- ✓ Range and re-fuelling experience similar to ICE



Case studies

High power, lightweight, modular fuel cells for automotive and stationary use



Fuel cell powered passenger vehicles with Changan UK



44 tonne HGV developed with MIRA and Viritech



Fuel cell powered buses with TYCE, Taiwan



600kW microgrid at Hickam Air Force Base in Honolulu, Hawaii

IE-FLIGHT:

100kW – multi-MW for aerospace applications

- ✓ Offer zero-emission energy solutions
- ✓ High power density
- ✓ Compact and easy to integrate
- ✓ Unique patented airflow management
- ✓ Scalable and modular
- ✓ Long life span



IE-FLIGHT: applications

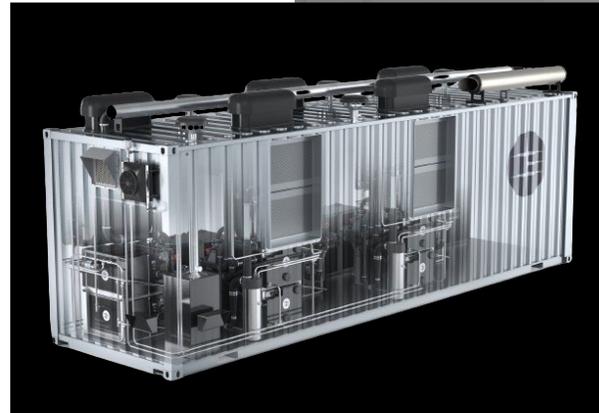
Committed to achieving zero-emission flight for aviation



IE-GRID:

100kW – multi-MW for grid applications

- ✓ Leading power density
- ✓ Scalable power
- ✓ Higher-grade heat is available
- ✓ Zero emissions
- ✓ CHP operation – usable heat at 110C
- ✓ Fast power changes – 1MW station can turn on in seconds



Case studies

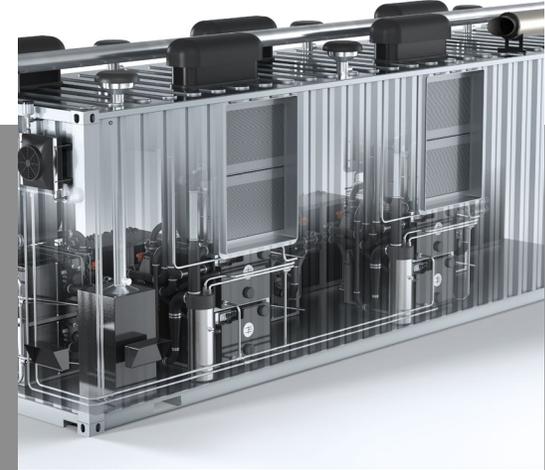
Committed to achieving zero-emission flight for aviation



Partnered with Nottingham University to deliver a zero-emission stationary power unit



600kW stationary power generator system supplied to the US Air Force



Working with partners to develop containerised solutions for microgrids and broadcasting

Management team



David Woolhouse
Chief Executive Officer



Julia Waite
Finance Director



Lauren Gurney
Human Resources Director



Greg Harris
Chief Commercial Officer



Chris Dudfield
Chief Technology Officer



Martin Schaefer
Operations Director



Ashley Kells
Programme Director

Facilities

Facility Capability

- 1.3MW fuel cell total testing capability
- Produced power recirculated into energy park infrastructure
- Development and durability of FLIGHT and DRIVE products

Supporting Infrastructure

- Fuel cell workshop and offices
- 450kg hydrogen generation per day
- Green hydrogen generated from local renewables
- Situated at Chelveston Renewable Energy Park



Charitable Trust

The Charitable Trust, launched in 2019, donates £100,000 each year to local community groups and organisations in the Charnwood area.

Established to support local causes in need of financial assistance which, support and aid, amongst others; community groups, young people, sport and lifelong learning.



Ownership

The company is part of the Meditor group, a global investment business with interests across a range of industries from energy to pharmaceuticals.



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